

Special Issue

Waste-to-Wealth: Waste Valorization into Sustainable Materials

Message from the Guest Editor

Nowadays, it is clear that developing new materials must be in accordance with the circular economy model and balanced against sustainable resources. By valorizing waste for the fabrication of novel materials, not only the issue of waste management can be addressed, but also the newly developed materials can be used for addressing other global issues. The Special Issue aims to cover the state of the art of novel functional materials development via a sustainable upcycling of various waste and by-products for use in emerging applications. The scope of this Special Issue includes, but is not limited to, the following areas:

- Advances in waste valorization and sidestream upcycling;
- Sustainable processes and production;
- Development and characterization of sustainable materials;
- Soft matter;
- Bio- and nature-inspired materials;
- Novel hydrogels and aerogels;
- Biofilms and bioplastics;
- Energy and environmental applications of advanced sustainable materials;
- Circular economy strategies;
- Life cycle assessment (LCA) and sustainability measures.

Guest Editor

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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